UK CONFEEDENTIAL

## - 15 -ABSTRACT

## STEERING OF MISSILES.

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LICENSING & REVIEW
A beam-riding missile (10) has a freely rotating control
portion (11) forming its nose and carrying a pair
of fixed ailerons (13) and a pair of fixed elevators
(14). Detecting means (not shown) gather information
indicative of the location of the missile in the beam
and steering logic circuitry (not shown) provides
signals to a clutch (18) which interfers with the
free rotation of the nose in such a way that the elevators
are effective to maintain the chosen flight path.

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The clutch can be electromagnetic, piezo-electric or function on the Johnson-Raebeck effect.

The combination of fixed control surfaces and steering
by a single actuator leads to the possibility of useful
reductions in the size, weight and complexity of the
missile.

